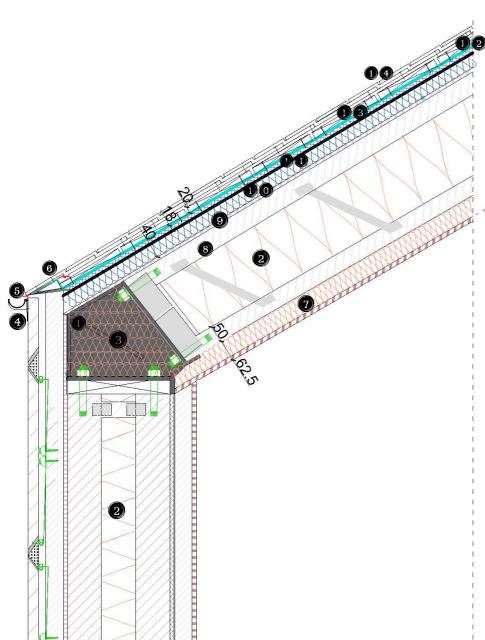
Typical Detail – Passive Twin Stud Wall to Timber Roof



NOTES:

1. Insulation overlapped within roof structure Earthwool* OmniFit, OmniFit Slab-Multi-purpose, non-combustible, glass mineral wool roll for installation by friction fitting. Flexible and robust made with a formaldehyde-free binder derived from rapidly renewable materials classified as Zero ODP and Zero GWP. Thermal conductivity (K-value): 0.034 W/mK. Roll width: 1200mm. Fire performance: Euroclass A1 to B5 EN ISO 13501-1. Environmental: 'A' generic BRE Green Guide rating. Manufacture: Knauf Insulation Ltd.

2. 300mm WARNIČEL Cellulose Fibre Insulation - Low-dust cellulose with a small percentage of oil or similar dust dampener added. Thermal Conductivity Lambda 90/90 23°C/S058RH 0.038 W/mK to EN 12667 EN ISO 10456 £AD 040138-00-1201. Reaction to Fire Class E. Spedific Airflow Resistance for bulk density 60.0 kg/m3-s18kPar3/m2, Critical Mositure Cortext 175%, Density min 65 (kg/m3). Specific heat capacity 2020 ± 6% I/kg K, vapor permeable. Manufacturer PCV Insulation.

3. Eave steel bracket with threaded rods glued into studs and rafters, Eave steel connectors to support eave panels connection, \$275 steel, thickness 10mm, size 146x146rmm, bolts M20 8.8 in 22 mm diameter holes. Horizontal bolt spacing 60/60/60/60 mm. Thermally coated with zinc-aluminium alloys. Fire exposed sides coated with fire resistant vermiculitie spray. Supplier: Barrett Steel Scotland, Fixing/fasteners Supplier: TR Fastenings ttd.

4. Aluminium bargeboard 125x75mm overlap over cladding, bedded and pointed in cement mortar, sealed with sealant. Bargeboard flashings, Type/Standard: galvanized steel 0.7mm gauge bargeboard flashings folded to the internal angle 90°, Standard zinc coating (g/m2) 275 (Z275) and blue slate colour polyester painted, Nominal organic coating thickness (µm) 25 to EN13523, to BS EN 10346:2009, Unit sizes: 3m lengths with 125mm x 75mm overlap over cladding. 'Accessories: Silicone sealant, Fasteners. Manufacturer: Accord Steel Cladding Ltd 5. Gutter and Conductor-Head Guards, Type/Standard: Gutter Plain Half Round Gravity fed die castings using LM 27 Alloy, Black textured polyester powder coated to BS5252 (inc BS4800), Unit sizes: 100mm width, Length 1.8m, Accessories: 90° internal and external angles, Outlet pieces with round or square drop as required, Fascia brackets, Rafter brackets, Rise and fall brackets, Left hand and right hand stop ends, Union clips, Silicone sealant, Stainless steel gutter bolts, Fasteners. Gutter of furnish sheet metal 24 gauge, galvanised, black with reglets on top of undercloak, fixed with sheet metal screws 22mm long. Included: Downpipes, Type/Standard: Cast Iron Round Pipe, Grey iron and conform to BS460, Colour Grey/Black, Unit sizes: Diameter - 65mm, Length 1.8m, 1.2m, 0.9m and 0.6m, Accessories: Shoes, Top offsets, Side offsets, Plinth offsets Branches, Bends, Loose clips, Loose socket with spigot, Square to round connectors, Fasteners. Manufacturer: Harrison Thompson & Co. Ltd

Tiling timber filet 85mmx30mm to support overhung slates at verge level.
 Scots pine verge fillet, Type/Sandard: BS 4978:2007+A2:2017, grade C16 specified in BS EN 1995-1-1:2004+A2:2014, Unit sizes: 85 mm x 30 mm x 3m, Manufacturer: Stewart Milne Group.

7. 62.5 mm insulated lining plasterboard Eurothane* Pt. - high performance rigid polytsocyanurate (PIR) foam board with a 12.5mm tapered edge plasterboard bonded to one side for use as an internal lining. Faced on the reverse with a multi-layer kraft paper and aluminium foil. Manufactured to ISO 9001 Quality and ISO 14001 Environmental Management Systems. Manufactured using a blowing agent with zero czone depletion potential (ODP) and low global warming potential (GWP). Low thermal conductivity of 0.022 W/mK (insulation component), Plasterboard laminate gives Eurothane* Pt. a Eurodass B-1, d0 fire performance. CE marked in accordance with harmonised European standard EN 13950. Broard Size: 2400 x 100 mm. Manufacturer: Rectice Insulation.

 Easi-joists WS300, metal web joists, Depth 304mm with 47mm deep scots pine joists, Type/Standard: softwood grade to 855268-2:2000 and to CP112 part 2, Unit sizes: 147x47x304mm deep, Durability: softwood C16, strong metal web. Manufacturer: Stewart Milne Group.

9. External Weather Defence sarking boards, fully non-combustible Euroclass AL rated sheathing boards and confirmed by BRE as a suitable alternative to cement particle board in external systems, tested or assessed against BS8414-2 or BR. 135, lightweight board which can easily create corners or striking curves. Sheathing boards) layer 1 x 12.5mm. Weather Defence Air permeability: to European standard EN 12114 0.002 m/m/hr – a negligible flow of air, Humid movement: to BN318 maximum expansion of 0.11mm per m (0.01158), from 65% to 85% relative humidity. Sizes: Width: 1200mm, Length: 2400mm, Boards per pallet: 52, Board weight: 10.8kg/m2. Fixings and sealants: FS90/W Flat Flate to studs corresponding with all horizontal board joints, Weather Defence board lied horizontally across studs in a 'trick bond' pattern, Siriat GFLC Wet Area Self Orilling screws at maximum 300mm centres, Fire Rated Silicone Sealant or Weather Defence Joint Tape. Manufacturer: Exte Bulliding Performance Siriat.

10. 50mm PermaRock EPS-Premium Insulation (EPS100) layer over rafters.

 Sheathing boards, Type/Standard: softwood grade to BS5268-2:2000 and to CP112 part 2, Unit sizes: 600x1200x18mm thick, Durability: OSB softwood C16. Manufacturer: Stewart Milne Group.

12. Roofing felt underlay, Type/Standard: Monartile Supa R Roofing Underlay-Polypropylene (pp) hydrophilic spun bond with a strong reinforcing grid encapsulated with a polyethylene (PE) top coating layer to BS EN 13707:2004+A2:2009 Part 2, product code 3007197, Unit sizes: Material hickness: 0,79mm, Water vapour resistance: 250 MIV/gs, weight of 150 g/m², in 1 x 50 m roll size. Durability: Type W1 strength. Manufacturer: BMI UK & Ireland. 13. Sarking boards: locesly butted 210x20mm, 600mm long extended over bargeboard fixed with wired nails 70mm long Type/Standard: softwood grade to

BS5268-2:2000 and to CP112 part 2, Unit sizes: 210x20mm thick, Durability:

softwood C16. Manufacturer: Stewart Milne Group.

14. Rock classic slates W1/c06%], variable size 450-445 x 295-300mm with 77mm headlap, Type/Standard: SIGA 120 W1/s 0,896, T1, S1 to B5 5534/2014 and BS EN 1991-1-4:2005, close match for texture, colour and size to Ballachulish Slate. Unit sizes: 450-445 x 295-300 with 77 mm headlap, Durability: random-diminishing slate from indigenous rock. Manufacturer: SIG Roofing.